Metadata for Walnut Canyon National Monument, Spatial Vegetation Data: Cover type / Association level of the National Vegetation Classification System

Identification_Information:

Citation:

Citation Information:

Originator: USBR Remote Sensing and GIS Group, Denver, Colorado

Publication_Date: 2004

Title: Vegetation Map: Walnut Canyon National Monument Geospatial_Data_Presentation_Form: vector digital data

Online Linkage: http://biology.usgs.gov/npsveg/waca/index.html#geospatial veg info

Larger_Work_Citation: Citation_Information:

Originator: M. Hansen, J. Coles, K.A. Thomas, D. Cogan, M. Reid, J. Von Loh, K. Schultz

Publication Date: 2004

Title: USGS-NPS National Vegetation Mapping Program: Walnut Canyon National Monument, Arizona, Vegetation

Classification and Distribution, Final Project Report

Geospatial_Data_Presentation_Form: report

Description:

Abstract: This metadata is for the vegetation and land-use geo-spatial database for Walnut Canyon National Monument and surrounding areas. The project is authorized as part of the USGS/NPS Vegetation Mapping Program. The program is being administered by the Biological Resources Division (BRD), United States Geological Survey (USGS). The USGS/BRD is responsible for overall management and oversight of all ongoing mapping efforts. This mapping effort was performed by the US Bureau of Reclamation's (USBR) Remote Sensing and GIS Group, Technical Service Center, Denver, CO and the USGS Colorado Plateau Research Station, Flagstaff, AZ. The vegetation mapping program is part of a larger Inventory and Monitoring (I&M) program started by the National Park Service (NPS).

Purpose: The purposes of the mapping effort are varied and include the following: Provides support for NPS Resources Management; Promotes vegetation-related research for both NPS and USGS/BRD; Provides support for NPS Planning and Compliance; Adds to the information base for NPS Interpretation; and Assists in NPS Operations. The NPS I&M goals are, among others, to map the vegetation of all national parks and monuments and provide a baseline inventory of vegetation.

Time_Period_of_Content:

Time_Period_Information: Single_Date/Time:

Calendar Date: 19961008

Currentness Reference: Date of Aerial Photography

Status:

Progress: Complete

Maintenance_and_Update_Frequency: None planned

Spatial_Domain:

Description_of_Geographic_Extent: Walnut Canyon National Monument and the environs.

Bounding_Coordinates:

West_Bounding_Coordinate: -111.562937 East_Bounding_Coordinate: -111.435931 North_Bounding_Coordinate: 35.218446 South_Bounding_Coordinate: 35.136858

Keywords: Theme:

> Theme_Keyword_Thesaurus: None Theme_Keyword: Vegetation Map Theme Keyword: Land Use

Theme_Keyword: Land Cover

Place:

Place_Keyword_Thesaurus: None

Place_Keyword: Arizona

Place_Keyword: Flagstaff Area Monuments Place_Keyword: United States of America

Place_Keyword: North America Place_Keyword: National Park Service

Place_Keyword: Walnut Canyon National Monument

Access_Constraints: None

Use_Constraints: Acknowledgment of the USGS and USBR/RSGIG would be appreciated in products derived from these data. Any person using the information presented here should fully understand the data collection and compilation before beginning analysis. The burden for determining fitness for use lies entirely with the user.

Point of Contact:

Contact_Information:
Contact Person Primary:

Contact_Person: Dan Cogan and Kathryn Thomas

Contact_Organization:

USBR Remote Sensing and GIS Group and USGS Southwest Biological Science Center

Colorado Plateau Research Station

Contact Position: Cogan: Physical Scientist; Thomas: PhD Ecologist

Contact Address:

Address_Type: mailing and physical address

Address: Cogan: POB 25007 Bldg 56 D-8260 Denver Federal Center Denver, CO 80225; Thomas: USGS Southwest

Biological Science Center Colorado Plateau Research Station P.O. Box 5614 Flagstaff, Arizona 86011

City: Denver

State_or_Province: CO Postal_Code: 80225 Country: USA

Contact Voice Telephone: Cogan: 303-445-2291 Thomas: 928-556-7327

Contact_Facsimile_Telephone: 303-445-6337

Contact_Electronic_Mail_Address: dcogan@do.usbr.gov; kathryn_a_thomas@usgs.gov

Hours of Service: 8:00 - 5:00 MST

Contact_Instructions: For GIS questions contact Cogan, for ecological questions contact Thomas.

Browse_Graphic:

Browse_Graphic_File_Name: http://biology.usgs.gov/npsveg/waca/images/wacaveg.jpg Browse Graphic File Description: 497 kbyte file showing vegetation associations

Browse_Graphic_File_Type: JPG

Data_Set_Credit: USBR: Janet Coles, Jim Von Loh, Dan Cogan, Doug Crawford, Trudy Meyer, Jean Pennel. USGS: Kathryn Thomas, Monica Hansen

Native_Data_Set_Environment: Microsoft Windows 2000 Version 5.0 (Build 2195) Service Pack 4; ESRI ArcCatalog 8.3.0.800

Taxonomy:

Keywords/Taxon:

Taxonomic_Keyword_Thesaurus: None Taxonomic_Keywords: plant communities

Taxonomic_Classification:
Taxon_Rank_Name: Kingdom
Taxon Rank Value: Plantae

Data_Quality_Information:

Attribute Accuracy:

Attribute_Accuracy_Report: These data have overall accuracy using the acceptable criteria of 69.2% (66.7 % Kappa Index) within a 90% confidence interval of 64.1 to 71.8%.

Logical_Consistency_Report: All polygon features were checked for topology, existence of label points, and label point

uniqueness. The labels were checked for correct and complete attributing. All nodes where checked for unintentional lines and to ensure that the polygons were closed. All steps preformed using ESRI ArcInfo commands.

Completeness_Report: All data that could be interpreted from the aerial photos were digitized in accordance with the minimum mapping unit (MMU) of 1/2 hectare. This included selected features that fell into the National Vegetation Classification and the Anderson Level II land use classification. Some classes below the MMU were included, especially water and wetland features and those at the edge of the study area (i.e. cut off by other features and borders). Roads (to visible right-of-way or fence line) and streams/drainages wider than 10 meters were digitized as polygons and attributed accordingly.

Positional_Accuracy:

Horizontal Positional Accuracy:

Horizontal_Positional_Accuracy_Report: Data were transferred to the GIS database using 1:12,000-scale USGS Digital Orthophoto Quarter Quadrangles (DOQQs) as basemaps. As such, the positional accuracy is no better than these products.

Vertical_Positional_Accuracy:

Vertical_Positional_Accuracy_Report: Data were transferred to the GIS database using 1:12,000-scale USGS Digital Orthophoto Quarter Quadrangles (DOQQs) as basemaps. As such, the positional accuracy is no better than these products.

Lineage:

Source Information:

Source_Citation:

Citation Information:

Originator: USDA - National Forest Service (BY: Merrick & Company 2450 S. Peoria St Aurora, CO 80014 Phone: 303-751-0741)

Publication Date: 19961008

Title: USDA - USFS Photos (Merrick & Company) Geospatial_Data_Presentation_Form: aerial photos

Source_Scale_Denominator: 12000

Type of Source Media: Color Infra-red aerial photos

Source_Time_Period_of_Content:

Time_Period_Information: Single Date/Time:

Single_Date/Time.

Calendar_Date: 19961008

 $Source_Currentness_Reference: publication \ date$

Source_Citation_Abbreviation: National Forest Service Photos Source_Contribution: Photos used for vegetation interpretation.

Process Step:

Process_Description:

PHOTO INTERPRETATION: All map classes were interpreted from 1:12,000 scale, color infra-red photography flown in October 1996. The photographs were acquired from the USGS/NPS mapping program. Photo-interpretation used the standard identification features such as tone, texture, color, pattern, topographic position, and shadow. In addition, field sample locations and their vegetation descriptions aided in assigning map classes to each polygon. Photographs were examined using a stereoscope as needed. Linework was created on semi-clear mylars placed over the photos.

GIS PROCEDURES: The linework on the mylar overlays was transferred into the GIS database by one of two methods, either heads-up digitizing or scanning. METHOD I: Heads-up digitizing is a procedure whereby the operator digitizes by hand on a computer terminal screen showing a digital image of a DOQQ. By looking at similar features on both the aerial photograph and on the DOQQ, the line drawn on the aerial photo overlay is manually transferred to the digital image. METHOD II: Most of WACA was transferred by digitally scanning the mylar overlays, vectorizing the scanned images, and fitting the resulting linework to corresponding DOQQs using known control points. Extensive cleaning, edge matching, and general editing of the digital vectors was completed before polygon topology was created. Labels were created for each polygon and they were attributed with the necessary vegetation information. The entire transfer and editing sequence was automated via in-house ArcInfo AML programs. The final vegetation coverage consists of vegetation polygons.

OTHER DATA: Quadrangle and DOQQ border coverages (bndryquad, bndrydoqq) were created by producing tics

every 2?30"" and 3' 45"" respectively and connecting arcs at the tics. The mapping project border coverage (bndryproj) was created by creating a 1-mile buffer around the Monument border and modifying it per the client's request to include additional areas of interest that fell further than 1 mile beyond the border. The Monument border coverage (bndrypark) was acquired from the client. A flightline coverage (bndryfline) was made by digitizing arcs with a DRG on screen and following lines as they appeared on the flightline index map.

Process_Date: 2000-2003
Process_Contact:
Contact_Information:
Contact_Person_Primary:

Contact_Person: Dan Cogan and Kathryn Thomas

Contact Organization:

USBR Remote Sensing and GIS Group and USGS Southwest Biological Science Center

Colorado Plateau Research Station

Contact Position: Cogan: Physical Scientist; Thomas: PhD Ecologist

Contact Address:

Address_Type: mailing and physical address

Address: Cogan: POB 25007 Bldg 56 D-8260 Denver Federal Center Denver, CO 80225; Thomas: USGS Southwest

Biological Science Center Colorado Plateau Research Station P.O. Box 5614 Flagstaff, Arizona 86011

City: Denver

State_or_Province: CO Postal_Code: 80225 Country: USA

Contact_Voice_Telephone: Cogan: 303-445-2291 Thomas: 928-556-7327

Contact Facsimile_Telephone: 303-445-6337

Contact_Electronic_Mail_Address: dcogan@do.usbr.gov; kathryn_a_thomas@usgs.gov

Hours_of_Service: 8:00 - 5:00 MST

Contact_Instructions: For GIS questions contact Cogan, for ecological questions contact Thomas.

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Vector

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS Point and Vector Object Type: Complete chain

Point_and_Vector_Object_Count: 3008

SDTS_Terms_Description:

SDTS Point and Vector Object Type: Label point

Point_and_Vector_Object_Count: 922

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: GT-polygon composed of chains

Point_and_Vector_Object_Count: 922

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: Point

Point_and_Vector_Object_Count: 15

Spatial_Reference_Information:

 $Horizontal_Coordinate_System_Definition:$

Planar:

Grid_Coordinate_System:

Grid_Coordinate_System_Name: Universal Transverse Mercator

 $Universal_Transverse_Mercator:$

UTM_Zone_Number: 12 Transverse Mercator:

Scale_Factor_at_Central_Meridian: 0.999600 Longitude_of_Central_Meridian: -111.000000 Latitude_of_Projection_Origin: 0.000000

False_Easting: 500000.000000

False_Northing: 0.000000 Planar Coordinate Information:

Planar Coordinate Encoding Method: coordinate pair

Coordinate Representation: Abscissa Resolution: 0.000007 Ordinate Resolution: 0.000007 Planar Distance Units: meters

Geodetic_Model:

Horizontal Datum Name: North American Datum of 1983

Ellipsoid_Name: Geodetic Reference System 80

Semi-major_Axis: 6378137.000000

Denominator of Flattening Ratio: 298.257222

Entity_and_Attribute_Information:

Detailed Description:

Entity Type:

Entity_Type_Label: waca veg.aat

Entity_Type_Definition: Walnut Canyon National Monument Vegetation Mapping Project: Vegetation Coverage Arc

Attribute Table

Entity_Type_Definition_Source: User defined

Attribute:

Attribute Label: FID

Attribute_Definition: Internal feature number.

Attribute Definition Source: ESRI

Attribute Domain Values:

Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.

Attribute:

Attribute Label: Shape

Attribute_Definition: Feature geometry. Attribute Definition Source: ESRI

Attribute Domain Values:

Unrepresentable_Domain: Coordinates defining the features.

Attribute:

Attribute Label: FNODE#

Attribute_Definition: Internal node number for the beginning of an arc (from-node).

Attribute Definition Source: ESRI

Attribute Domain Values:

Unrepresentable_Domain: Whole numbers that are automatically generated.

Attribute:

Attribute Label: TNODE#

Attribute_Definition: Internal node number for the end of an arc (to-node).

Attribute Definition Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Whole numbers that are automatically generated.

Attribute:

Attribute Label: LPOLY#

Attribute Definition: Internal node number for the left polygon.

Attribute Definition Source: ESRI

Attribute Domain Values:

Unrepresentable_Domain: Whole numbers that are automatically generated.

Attribute:

Attribute Label: RPOLY#

Attribute_Definition: Internal node number for the right polygon.

Attribute Definition Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Whole numbers that are automatically generated.

Attribute:

Attribute_Label: AREA

Attribute: Attribute Label: LENGTH Attribute Definition: Length of feature in internal units. Attribute Definition Source: ESRI Attribute Domain Values: Unrepresentable Domain: Positive real numbers that are automatically generated. Attribute: Attribute Label: WACA VEG# Attribute Definition: Internal feature number. Attribute Definition Source: ESRI Attribute_Domain_Values: Unrepresentable Domain: Sequential unique whole numbers that are automatically generated. Attribute: Attribute Label: WACA VEG-ID Attribute Definition: User-defined feature number. Attribute Definition Source: ESRI Attribute Domain Values: Unrepresentable Domain: Whole numbers that are automatically generated. Attribute: Attribute_Label: DIGTYPE Attribute Definition: User-defined feature number. Attribute Definition Source: ESRI Attribute_Domain_Values: Enumerated Domain: Enumerated Domain Value: 1 Enumerated_Domain_Value_Definition: Represents a line that was digitally transferred using on-screen or heads-up methods. Enumerated Domain Value Definition Source: User Defined Enumerated_Domain: Enumerated Domain Value: 2 Enumerated Domain Value Definition: Represents lines that were digitally transferred from scanned mylar overlays. Enumerated_Domain_Value_Definition_Source: User Defined Enumerated Domain: Enumerated Domain Value: 3 Enumerated_Domain_Value_Definition: Represents the boundary arcs of the project area. Enumerated Domain Value Definition Source: User Defined Detailed Description: Entity_Type: Entity Type Label: waca veg.pat Entity_Type_Definition: Walnut Canyon National Monument Vegetation Mapping Project: Vegetation Coverage Polygon Attribute Table Entity Type Definition Source: User defined Attribute: Attribute_Label: FID Attribute Definition: Internal feature number. Attribute Definition Source: ESRI Attribute Domain Values: Unrepresentable Domain: Sequential unique whole numbers that are automatically generated. Attribute: Attribute Label: Shape Attribute Definition: Feature geometry. Attribute Definition Source: ESRI Attribute Domain Values: Unrepresentable_Domain: Coordinates defining the features.

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Attribute_Definition: Area of feature in internal units squared.

Attribute Definition Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Positive real numbers that are automatically generated.

Attribute:

Attribute_Label: PERIMETER

Attribute Definition: Perimeter of feature in internal units.

Attribute Definition Source: ESRI

Attribute Domain Values:

Unrepresentable_Domain: Positive real numbers that are automatically generated.

Attribute:

Attribute Label: WACA VEG#

Attribute Definition: Internal feature number.

Attribute Definition Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.

Attribute:

Attribute_Label: WACA_VEG-ID

Attribute Definition: User-defined feature number.

Attribute_Definition_Source: ESRI

Attribute Domain Values:

Unrepresentable_Domain: Whole numbers that are automatically generated.

Attribute:

Attribute Label: PHOTO

Attribute_Definition: Aerial photo number (flightline-number) from which the polygon was interpreted.

Attribute_Definition_Source: 1:12,000 scale, color infra-red photography flown in October 1996.

Attribute_Domain_Values:

Unrepresentable Domain: Positive real numbers representing the flightline and aerial photo numbers

Attribute:

Attribute Label: DENSITY

Attribute_Definition: Density classes as interperted by BOR.

Attribute_Definition_Source: Interperted vegetation density classes.

Attribute Domain Values:

Unrepresentable_Domain: Density classes.

Attribute:

Attribute_Label: MAP_CODE Attribute Definition: Map Unit Code

Attribute_Definition_Source: USBR Remote Sensing and GIS Group

Attribute_Domain_Values: Enumerated Domain:

Enumerated_Domain_Value: 1

Enumerated Domain Value Definition: Sparsely Vegetated Coconino Sandstone

Enumerated_Domain_Value_Definition_Source: User Defined

Enumerated_Domain:

Enumerated Domain Value: 2

Enumerated_Domain_Value_Definition: Sparsely Vegetated Kaibab Limestone

Enumerated Domain Value Definition Source: User Defined

Enumerated_Domain:

Enumerated Domain Value: 3

Enumerated Domain Value Definition: Sparsely Vegetated Intermittent Drainage Channel

Enumerated_Domain_Value_Definition_Source: User Defined

Enumerated_Domain:

Enumerated Domain Value: 4

Enumerated_Domain_Value_Definition: Blue Grama - Mt. Muhly Grassland Group

Enumerated_Domain_Value_Definition_Source: User Defined

Enumerated_Domain:

Enumerated_Domain:

Enumerated_Domain_Value: 5 Enumerated Domain Value Definition: Introduced Western Wheatgrass Grassland Enumerated Domain Value Definition Source: User Defined Enumerated Domain: Enumerated Domain Value: 6 Enumerated Domain Value Definition: Common Horehound - Prairie Dog Town Enumerated_Domain_Value_Definition_Source: User Defined Enumerated Domain: Enumerated_Domain_Value: 7 Enumerated_Domain_Value_Definition: Snakeweed/Modified Grassland Complex Enumerated_Domain_Value_Definition_Source: User Defined Enumerated Domain: Enumerated Domain Value: 8 Enumerated Domain Value Definition: Rabbitbrush/Blue Grama Shrub Herbaceous Vegetation Enumerated Domain Value Definition Source: User Defined Enumerated Domain: Enumerated Domain Value: 9 Enumerated Domain Value Definition: Limestone Rim Complex Enumerated Domain Value Definition Source: User Defined Enumerated_Domain: Enumerated_Domain_Value: 10 Enumerated Domain Value Definition: Canyon Floor Complex Enumerated_Domain_Value_Definition_Source: User Defined Enumerated Domain: Enumerated Domain Value: 11 Enumerated_Domain_Value_Definition: Pinyon Pine - Utah Juniper/Blue Grama Woodland Enumerated Domain Value Definition Source: User Defined Enumerated Domain: Enumerated_Domain_Value: 12 Enumerated Domain Value Definition: Ponderosa Pine - Pinyon Pine-Juniper/Blue Grama Woodland Enumerated_Domain_Value_Definition_Source: User Defined Enumerated_Domain: Enumerated Domain Value: 13 Enumerated_Domain_Value_Definition: Ponderosa Pine - Pinyon Pine - Juniper/Gambel Oak Woodland Enumerated Domain Value Definition Source: User Defined Enumerated Domain: Enumerated Domain Value: 14 Enumerated_Domain_Value_Definition: Ponderosa Pine / Gambel Oak Woodland Enumerated Domain Value Definition Source: User Defined Enumerated Domain: Enumerated_Domain_Value: 15 Enumerated Domain Value Definition: Ponderosa Pine / Mixed Graminoid Woodland Complex Enumerated_Domain_Value_Definition_Source: User Defined Enumerated_Domain: Enumerated Domain Value: 16 Enumerated Domain Value Definition: Douglas-fir / Gambel Oak Forest Enumerated Domain Value Definition Source: User Defined Enumerated Domain: Enumerated_Domain_Value: 17 Enumerated Domain Value Definition: Rural Residential Enumerated_Domain_Value_Definition_Source: User Defined Enumerated Domain: Enumerated_Domain_Value: 18 Enumerated_Domain_Value_Definition: Ranch Developments Enumerated_Domain_Value_Definition_Source: User Defined

Attribute:

Attribute_Label: ASSN_NAME2

Attribute_Definition: NVCS Association Scientific Name(s) (Continued)

Enumerated_Domain_Value: 19 Enumerated Domain Value Definition: NPS Facilities Enumerated Domain Value Definition Source: User Defined Enumerated Domain: Enumerated Domain Value: 20 Enumerated Domain Value Definition: Utility Corridors Enumerated Domain Value Definition Source: User Defined Enumerated Domain: Enumerated_Domain_Value: 21 Enumerated_Domain_Value_Definition: Transportation Routes Enumerated_Domain_Value_Definition_Source: User Defined Enumerated Domain: Enumerated Domain Value: 22 Enumerated Domain Value Definition: Pastures Enumerated Domain Value Definition Source: User Defined Enumerated Domain: Enumerated Domain Value: 23 Enumerated Domain Value Definition: Reservoirs Enumerated Domain Value Definition Source: User Defined Enumerated_Domain: Enumerated_Domain_Value: 24 Enumerated Domain Value Definition: Stock Tanks and Dams Enumerated_Domain_Value_Definition_Source: User Defined Attribute: Attribute Label: VEG NAME Attribute_Definition: Map Unit Common Name Attribute Definition Source: USGS and USBR Remote Sensing and GIS Group Attribute Domain Values: Unrepresentable_Domain: Text Attribute: Attribute Label: ECO Attribute_Definition: Ecological description of the polygon. Attribute Definition Source: USGS Colorado Plateau Research Station Attribute Domain Values: Codeset Domain: Codeset Name: National Vegetation Classification System Codeset Source: http://www.natureserve.org/explorer/ Attribute: Attribute Label: PHYS Attribute_Definition: Physiographic description of the polygon. Attribute_Definition_Source: USGS Colorado Plateau Research Station and USBR Remote Sensing and GIS Group Attribute Domain Values: Codeset Domain: Codeset_Name: National Vegetation Classification System Codeset Source: http://www.natureserve.org/explorer/ Attribute: Attribute Label: ASSN NAME Attribute Definition: NVCS Association Scientific Name(s) Attribute_Definition_Source: National Vegetation Classification System Attribute Domain Values: Codeset Domain: Codeset Name: National Vegetation Classification System Codeset_Source: http://www.natureserve.org/explorer/

Attribute_Definition_Source: National Vegetation Classification System Attribute Domain Values: Codeset Domain: Codeset Name: National Vegetation Classification System Codeset Source: http://www.natureserve.org/explorer/ Attribute: Attribute Label: ASSN CNAME Attribute_Definition: NVCS Association Common Name(s) Attribute_Definition_Source: National Vegetation Classification System Attribute Domain Values: Codeset_Domain: Codeset Name: National Vegetation Classification System Codeset Source: http://www.natureserve.org/explorer/ Attribute: Attribute Label: ASSN CNAM2 Attribute Definition: NVCS Association Common Name(s) (Continued) Attribute_Definition_Source: National Vegetation Classification System Attribute Domain Values: Codeset Domain: Codeset_Name: National Vegetation Classification System Codeset_Source: http://www.natureserve.org/explorer/ Attribute: Attribute_Label: ELCODE Attribute Definition: NVCS Association code - Community Element Global Code Attribute Definition Source: National Vegetation Classification System Attribute Domain Values: Codeset Domain: Codeset Name: National Vegetation Classification System Codeset_Source: http://www.natureserve.org/explorer/ Attribute: Attribute Label: ALL NAME Attribute_Definition: NVCS Alliance Scientific Name(s) Attribute Definition Source: National Vegetation Classification System Attribute_Domain_Values: Codeset_Domain: Codeset Name: National Vegetation Classification System Codeset Source: http://www.natureserve.org/explorer/ Attribute: Attribute Label: ALL NAME2 Attribute Definition: NVCS Alliance Scientific Name(s) (Continued) Attribute_Definition_Source: National Vegetation Classification System Attribute Domain Values: Codeset Domain: Codeset_Name: National Vegetation Classification System Codeset Source: http://www.natureserve.org/explorer/ Attribute: Attribute Label: ALL CNAME Attribute Definition: NVCS Alliance Common Name(s) Attribute_Definition_Source: National Vegetation Classification System Attribute Domain Values: Codeset Domain: Codeset Name: National Vegetation Classification System Codeset_Source: http://www.natureserve.org/explorer/ Attribute: Attribute_Label: ALL_CNAME2

Attribute_Definition: NVCS Alliance Common Name(s) (Continued)

Attribute_Definition_Source: National Vegetation Classification System Attribute Domain Values: Codeset Domain: Codeset Name: National Vegetation Classification System Codeset Source: http://www.natureserve.org/explorer/ Attribute: Attribute Label: NVCS CODE Attribute_Definition: NVCS Code(s) to the formation level Attribute_Definition_Source: National Vegetation Classification System Attribute Domain Values: Codeset_Domain: Codeset Name: National Vegetation Classification System Codeset Source: http://www.natureserve.org/explorer/ Attribute: Attribute_Label: CLASS Attribute Definition: NVCS Class Name(s) and Code(s) Attribute_Definition_Source: National Vegetation Classification System Attribute Domain Values: Codeset Domain: Codeset_Name: National Vegetation Classification System Codeset_Source: http://www.natureserve.org/explorer/ Attribute: Attribute_Label: SUBCLASS Attribute Definition: NVCS Sublass Name(s) and Codes(s) Attribute Definition Source: National Vegetation Classification System Attribute Domain Values: Codeset Domain: Codeset Name: National Vegetation Classification System Codeset_Source: http://www.natureserve.org/explorer/ Attribute: Attribute Label: GROUP Attribute_Definition: NVCS Group Name(s) and Code(s) Attribute Definition Source: National Vegetation Classification System Attribute_Domain_Values: Codeset_Domain: Codeset Name: National Vegetation Classification System Codeset Source: http://www.natureserve.org/explorer/ Attribute: Attribute Label: SUBGROUP Attribute_Definition: NVCS Subgroup Name(s) and Code(s) Attribute_Definition_Source: National Vegetation Classification System Attribute Domain Values: Codeset Domain: Codeset_Name: National Vegetation Classification System Codeset Source: http://www.natureserve.org/explorer/ Attribute: Attribute Label: FORMATION Attribute Definition: NVCS Formation Name Attribute Definition Source: National Vegetation Classification System Attribute Domain Values:

Codeset Domain:

Codeset Name: National Vegetation Classification System Codeset_Source: http://www.natureserve.org/explorer/

Attribute:

Attribute_Label: LUC_II

Attribute_Definition: Land use and land cover (Level II) classification system code and name for the polygon.

Attribute_Definition_Source: Anderson, J.R., E.E. Hardy, J.T. Roach, R.E. Witmer. 1976. Land use and land cover classification system for use with remote sensor data.

Attribute Domain Values:

Unrepresentable Domain: Level II Code and Text

Attribute:

Attribute Label: COMMENT 1

Attribute Definition: General description of the map unit.

Attribute_Definition_Source: USGS Colorado Plateau Research Station

Attribute_Domain_Values:
Unrepresentable_Domain: Text

Attribute:

Attribute Label: COMMENT 2

Attribute Definition: General comment describing how the map unit relates to other map units.

Attribute Definition Source: USGS Colorado Plateau Research Station

Attribute_Domain_Values:
Unrepresentable_Domain: Text

Overview_Description:

Entity_and_Attribute_Overview: Attributes were either generated by ArcInfo or assigned by the USBR Remote Sensing GIS Group.

Entity_and_Attribute_Detail_Citation: Walnut Canyon Vegetation Mapping Project Final Report (DOI - USGS/USBR)

Distribution Information:

Distributor:

Contact Information:

Contact_Organization_Primary:

Contact_Organization: USGS-NPS Vegetation Mapping Program Coordinator

Contact Address:

Address Type: mailing and physical address

Address: U.S. Geological Survey, Center for Biological Informatics, MS 302, Room 8000, Building 810, Denver

Federal Center

City: Denver

State_or_Province: Colorado

Postal_Code: 80225 Country: USA

Contact_Voice_Telephone: (303) 202-4220 Contact_Facsimile_Telephone: (303) 202-4219

Contact_Electronic_Mail_Address: gs-b-npsveg@usgs.gov

Resource_Description: Downloadable Data

Distribution_Liability: The National Park Service, U.S. Geological Survey, and U.S. Bureau of Reclamation shall not be held liable for improper or incorrect use of the data described and/or contained herein. These data and related graphics and reports are not legal documents and are not intended to be used as such. The information contained in these data is dynamic and may change over time. The data are not better than the original sources from which they were derived. It is the responsibility of the data user to use the data appropriately and consistent within the limitations of geospatial data in general and these data in particular. The related graphics are intended to aid the data user in acquiring relevant data; it is not appropriate to use the related graphics as data. No warranty, expressed or implied, is given as to the accuracy, reliability, or completeness of these data. It is strongly recommended that these data are directly acquired from an USGS or NPS server and not indirectly through other sources which may have changed the data in some way. Although these data have been processed successfully on a computer systems at the National Park Service, U.S. Geological Survey, and U.S. Bureau of Reclamation, no warranty expressed or implied is made regarding the utility of the data on another system or for general or scientific purposes, nor shall the act of distribution constitute any such warranty. This disclaimer applies both to individual use of the data and aggregate use with other data.

Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information: Format_Name: HTML Digital_Transfer_Option:

Online_Option:

Computer Contact Information:

Network Address:

Network_Resource_Name: http://biology.usgs.gov/npsveg/waca/index.html#geospatial_veg_info

Fees: none

Metadata_Reference_Information:

Metadata_Date: 20041115

Metadata_Review_Date: 20060907

Metadata_Contact:
Contact_Information:

Contact Organization Primary:

Contact Organization: USGS-NPS Vegetation Mapping Program Coordinator

Contact_Address:

Address_Type: mailing and physical address

Address:

U.S. Geological Survey, Center for Biological Informatics, MS 302,

Room 8000, Building 810, Denver Federal Center

City: Denver

State_or_Province: Colorado

Postal_Code: 80225 Country: USA

Contact_Voice_Telephone: (303) 202-4220 Contact_Facsimile_Telephone: (303) 202-4219

Contact Electronic Mail Address: gs-b-npsveg@usgs.gov

Metadata_Standard_Name: FGDC-STD-001.1-1999 Content Standard for Digital Geospatial Metadata, 1998 Part 1:

Biological Data Profile, 1999

Metadata Standard Version: FGDC-STD-001-1998

Metadata_Extensions:

Online_Linkage: http://biology.usgs.gov/fgdc.bio/bionwext.txt Profile_Name: Biological Data Profile FGDC-STD-001.1-1999